

U.S. Patent Application Serial No. 09/417,705
Response filed November 3, 2004
Reply to OA dated August 3, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9 (Canceled):

Claim 10 (Currently Amended): A digital camera, comprising:

an imaging device for outputting, at a rate of one screen per a first period, a first image signal of a first resolution which corresponds to an optical image of an object scene;

a creator for creating [[an]] a second image signal corresponding to an optical image of an object scene every first period of a second resolution lower than the first resolution by subjecting the first image signal outputted from said imaging device to a signal processing including a thinning-out process;

a memory having a single input/output port and a plurality of memory areas;

a changer for changing a selecting of [[the]] a memory area at an interval of the first period;

a writer for writing the second image signal created by said creator to one of said plurality of memory areas based on a changing result of said changer;

a reader for reading the second image signal from another of said plurality of memory areas based on the changing result of said changer [[every]] at a rate of one screen per a second period which is one [[for]] over an integer of the first period; and

15 a displayer for displaying an image based on the second image signal read out by said reader,
16 wherein said memory is an SDRAM, and said writer includes a buffer for holding the second image
17 signal created by said creator, and a transferor for transferring the second image signal held by said
18 buffer to said memory.

Claims 11 and 12 (Canceled).

1 Claim 13 (Previously Presented): A digital camera according to claim 10, wherein the
2 number of the memory areas is two, and the second period is $\frac{1}{2}$ of the first period.

1 Claim 14 (Previously Presented): A digital camera according to claim 10, wherein said
2 changer changes the selecting of the memory area in a predetermined order.

3 Claim 15 (New): A digital camera, comprising:
4 an imaging device for outputting, at a rate of one screen per a first period, a first image signal
5 of a first resolution which corresponds to an optical image of an object scene;
6 a creator for creating a second image signal of a second resolution lower than the first
7 resolution by subjecting the first image signal outputted from said imaging device to a signal
8 processing including a thinning-out process;
9 a memory having a single input/output port;

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10 a writer for writing the second image signal created by said creator to said memory;
11 a reader for reading the second image signal from said memory at a rate of one screen per a
12 second period which is shorter than the first period; and
13 a displayer for displaying an image based on the second image signal read out by said reader,
14 wherein said memory is an SDRAM, and said writer includes a buffer for holding the second image
15 signal held by said buffer to said memory.

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